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Attorney's Docket No.: 42P17279

PATENT

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In Re Patent Application of:	)	
	)	
Justin K. Brask et al.	)	Examiner: Unassigned
	)	
Application No.: 10/642,546	)	Art Unit: Unassigned
	)	
Filed: August 28, 2003	)	
	)	
For: SELECTIVE ETCH PROCESS FOR	)	
MAKING A SEMICONDUCTOR DEVICE	)	
HAVING A HIGH-K GATE DIELECTRIC	)	

Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

Sir:

Enclosed is a copy of Information Disclosure Citation Form PTO-1449 or PTO/SB/08 together with copies of the documents cited on that form, except for copies not required to be submitted (e.g., copies of U.S. patents and U.S. published patent applications need not be enclosed). It is respectfully requested that the cited documents be considered and that the enclosed copy of Information Disclosure Citation Form PTO-1449 or PTO/SB/08 be initialed by the Examiner to indicate such consideration and a copy thereof returned to applicant(s).

Pursuant to 37 C.F.R. § 1.97, the submission of this Information Disclosure Statement is not to be construed as a representation that a search

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Teresa Mattox

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has been made and is not to be construed as an admission that the information cited in this statement is material to patentability.

Pursuant to 37 C.F.R. § 1.97, this Information Disclosure Statement is being submitted under one of the following (as indicated by an "X" to the left of the appropriate paragraph):


- ☒ 37 C.F.R. §1.97(b).
- ☐ 37 C.F.R. §1.97(c). If so, then enclosed with this Information Disclosure Statement is one of the following:
- ☐ A statement pursuant to 37 C.F.R. §1.97(e) or
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If there are any additional charges, please charge Deposit Account No. 02-2666.

Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

Dated: 12/13 2004

  
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Substitute for Form 1449/PTO <div style="position: relative; width: 100px; height: 100px; margin: 0 auto;"> <div style="position: absolute; top: 0; left: 0; width: 100%; height: 100%; border: 1px solid black; border-radius: 50%; text-align: center; line-height: 100px;">             PTO              DEC 16 2003              PATENT &amp; TRADEMARK OFFICE           </div> </div> <h2 style="margin: 0;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h2> <p style="margin: 0; font-size: small;">(use as many sheets as necessary)</p>				<b>Complete if Known</b>		
		Application Number	10/642,546			
		Filing Date	August 28, 2003			
		First Named Inventor:	Justin K. Brask et al.			
		Art Unit	Unknown			
		Examiner Name	Unknown			
		Attorney Docket Number	42P17279			
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<b>U.S. PATENT DOCUMENTS</b>						
Examiner Initials*	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)				
		US-	5,368,687	11/29/1994	Sandhu et al.	
		US-	6,432,779 B1	8/13/2002	Hobbs et al.	
		US-	6,764,898 B1	7/20/2004	En et al.	
		US-	2003/0104706 A1	6/5/2003	Mitsuhashi et al.	
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<b>FOREIGN PATENT DOCUMENTS</b>								
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
		JP	05175174		7/13/1993	Nec Corp.		
		JP	2000216142		8/4/2000	Toshiba Corp.		
		WO	2004/021409		3/11/2004	Tokyo Electron Limited		
		WO	2004/030049		4/8/2004	Tokyo Electron Limited		

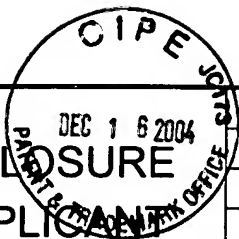
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## INFORMATION DISCLOSURE

## STATEMENT BY APPLICANT

(use as many sheets as necessary)

Complete if Known

Application Number	10/642,546
Filing Date	August 28, 2003
First Named Inventor:	Justin K. Brask et al.
Art Unit	Unknown
Examiner Name	Unknown
Attorney Docket Number	42P17279

Sheet

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of

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## NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
		"Process for Selective Etching of Tantalum Oxide" IBM Technical Disclosure Bullentin, IBM Corp., New York, Vol. 27, No. 12 May 1985, page 7238, XP000807046	
		Christenson K., et al. "Selective Wet Etching of High-K Gate Dielectrics" Diffusion and Defect Data, Solid State Data, Part B, Solid State Phenomena, Vol. 92, 2003, pages 129-132, XP008023569	
		Bernet J., et al. "Wet Etch Enhancement of HfO <sub>2</sub> Films by Implant Processing", Diffusion and Defect Data, Solid State Data, Part B, Solid State Phenomena, Vol. 92, 2003, pages 11-14 XP008029227	
		European Search Report EP 04 01 7225	

Examiner  
SignatureDate  
Considered

\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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